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《新规
New

• 变更》
Revision

产品规格书

Product Specification

产品名
Product TFT-LCD Module

机种名
Model LM185TT2A

【接收印栏】



※ 本基准书由封面、附件等全 20 页构成。

如果对该规格书有异议, 请在下订单前提出。

※ This Product Specification have 20 pages including the coversheet and Appendices. Please negotiate the objection point before purchase order.

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REVISION HISTORY

MODEL NO: LM185TT2A



1. GENERAL DESCRIPTION

1.1 OVERVIEW

This module is color active matrix LCD module incorporating amorphous silicon TFT(Thin Film Transistor) LCD panel. It is composed of a color TFT-LCD panel, driver ICs, LED Backlight... etc. Graphics and texts can be displayed on a 1366×RGB×768 dots panel with about 16.7M colors (R/G/B 6bits+Hi FRC data in each color) by using LVDS(Low Voltage Differential Signaling) to interface, +5V of DC supply voltage.

1.2 CHARACTERISTICS

CHARACTERISTICS ITEMS	SPECIFICATIONS
Screen Diagonal [in]	18.5"
Pixels [lines]	1366×768
Active Area [mm]	409.8 (H) x 230.4 (V)
Pixel Pitch [mm]	0.300 (H) x 0.300 (V)
Pixel Arrangement	RGB vertical stripe
Display Colors	16.7M
Display Mode	Normally White
Surface treatment (Without the protection film)	Anti-glare,3H

1.3 MECHANICAL SPECIFICATIONS

Item		Min.	Typ.	Max.	Unit	Remark
Module Size	Horizontal (H)	429.87	430.37	430.87	mm	[Note 1]
	Vertical (V)	254.1	254.6	255.1	mm	[Note 1]
	Depth (D)	10	10.5	11	mm	[Note 1]
Weight		1350		g		

[Note 1] Please refer to the attached drawings for more information of front and back outline dimensions.

2. ABSOLUTE MAXIMUM RATINGS

2.1 ABSOLUTE RATINGS OF ENVIRONMENT

Item	Symbol	Value		Unit	Remark
		Min.	Max.		
Storage Temperature	T _{ST}	-20	+60	°C	[Note 1,3]
Operating Ambient Temperature	T _{OP}	0	50	°C	[Note 1,2,3]

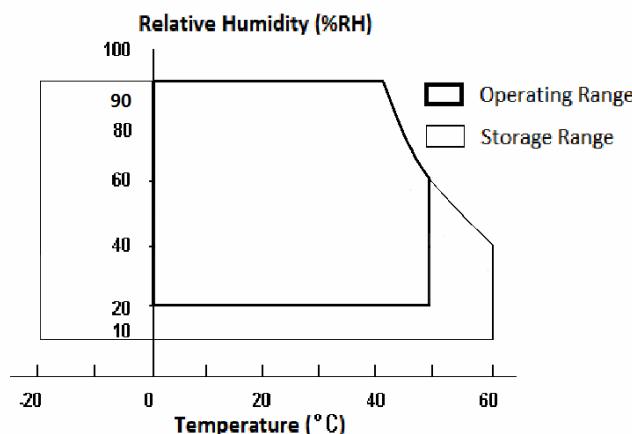
Storage Condition: With shipping package.

[Note 1] Temperature and relative humidity range is shown in the figure below.

*1) 90 %RH Max. (Ta ≤ 40 °C).

*2) Wet-bulb temperature should be 40 °C Max. (Ta > 40 °C).





*3) No condensation.

[Note 2] The maximum operating temperature is based on the test condition that the surface temperature of display area is less than or equal to 50°C with LCD module alone in a temperature controlled chamber. Thermal management should be considered in your product design to prevent the surface temperature of display area from being over 60°C. The range of operating temperature may degrade in case of improper thermal management in your product design.

[Note 3] The rating of environment is base on LCD module. Leave LCD cell alone, this environment condition can't be guaranteed. Except LCD cell, the customer has to consider the ability of other parts of LCD module and LCD module process.

3. ELECTRICAL CHARACTERISTICS

3.1 ABSOLUTE MAXIMUM RATING

Parameter	Symbol	Condition	Ratings	Unit	Remark
+5V supply voltage	VCC	Ta=25°C	-0.3~+6	V	
Storage temperature	Tstg	-	-20~+60	°C	
Operation temperature	Topa	-	0~+50	°C	

3.2 CONTROL CIRCUIT DRIVING

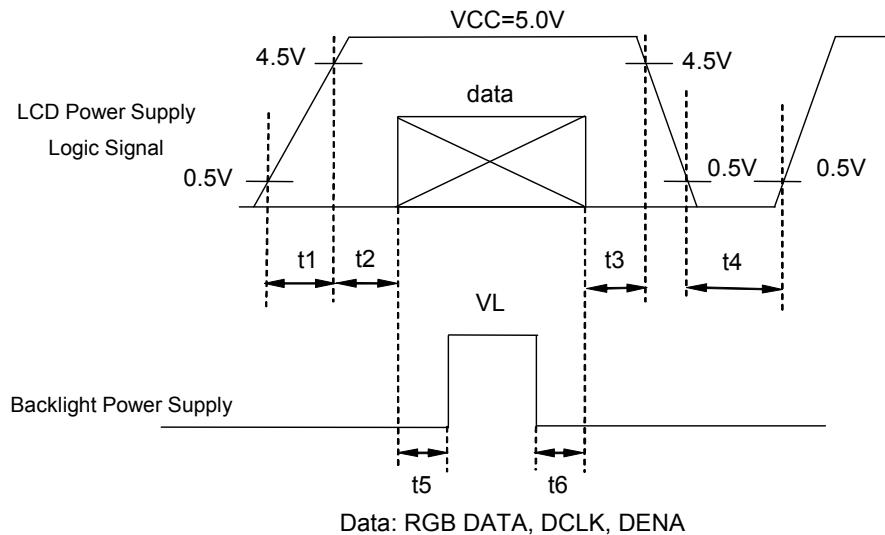
Parameter	Symbol	Min	Typ	Max	Unit	Remark
+5V supply voltage	Supply voltage	VCC	4.5	5.0	5.5	V
	Current dissipation	ICC	—	580	900	mA
	IRush	—	—	3	A	[Note 2]
Permissible input ripple voltage	VRP	—	—	300	mVp-p	VCC=5.0V
Differential Input Threshold Voltage	High	VTH	—	100	mV	VCM=1.2V
	Low	VTL	-100	—	mV	[Note 3]
Input Differential Voltage	VID	100	—	600	mV	
Differential Input Common Mode Voltage	VCM	1.0	1.2	1.5	V	
Power consumption	P	—	3	4.5	W	

[VCM]: Common mode voltage of LVDS driver

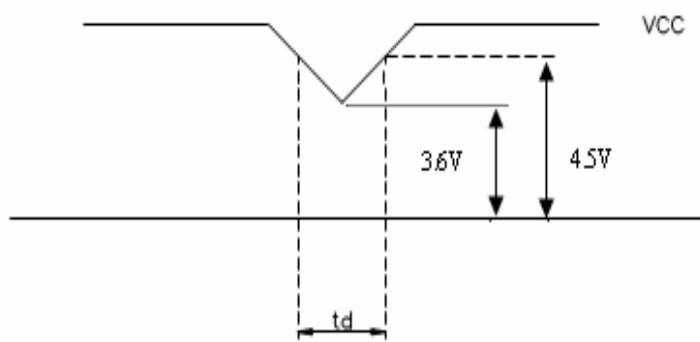


[Note1] Power, data sequence

$0.50\text{ms} \leq t1 \leq 10\text{ms}$	$t4 \geq 1\text{ sec}$
$0.01\text{ms} < t2 \leq 50\text{ms}$	$t5 \geq 500\text{ms}$
$0.01\text{ms} < t3 \leq 50\text{ms}$	$t6 \geq 200\text{ms}$



- ※ Data: CLKIN \pm , RIN0 \pm , RIN1 \pm , RIN2 \pm , RIN3 \pm
- ※ About the relation between data input and back light lighting, please base on the above-mentioned input sequence.
- ※ When back light is switched on before panel operation or after a panel operation stop, it may not display normally. But this phenomenon is not based on change of an incoming signal, and does not give damage to a liquid crystal display.
- ※ VCC-dip conditions:
 - (1) When $3.6\text{V} \leq \text{VCC}(\text{min}) < 4.5\text{V}$, $t_d \leq 10\text{ ms}$
 - (2) When $\text{VCC} < 3.6\text{ V}$, VCC-dip conditions should also follow the VCC-turn-on conditions.

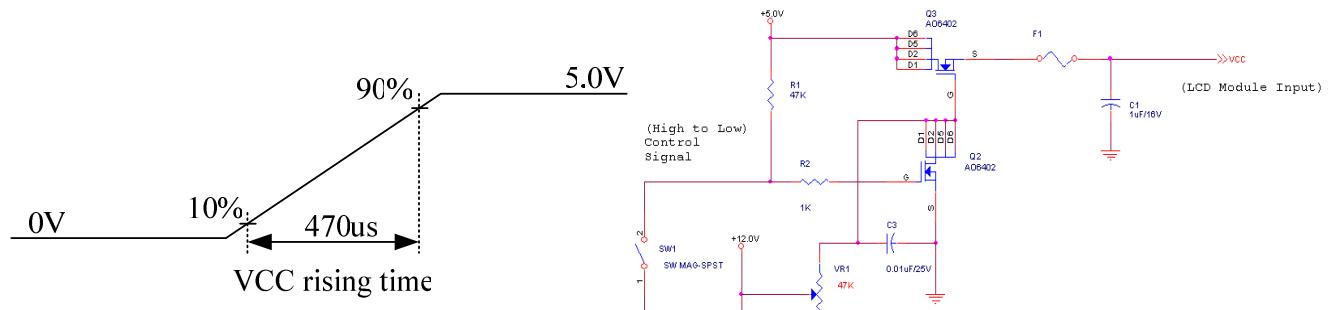


[Note2]

IRush Measurement Condition:

The duration of rising time of power input is 470us.

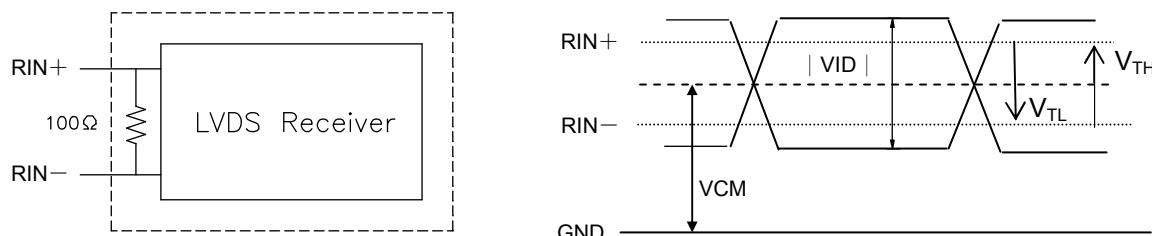




[Note3]

RIN+: Positive differential DATA & CLK Input

RIN :: Negative differential DATA & CLK Input



3.3 LED LIGHTBAR SPECIFICATION FOR BACKLIGHT

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Input Voltage /Pin	V _{pin}	29	33	36	VDC	Duty 100% [Note 1]
Input Current /Pin	I _{pin}	-	60	-	mADC	Duty 100% Per Lightbar [Note 1]
LED Life Time	LT	30,000	-	-	Hrs	[Note 2]
Power Consumption	P _{bl}	7.0	7.9	8.6	W	
Dimming Duty Ratio	-	20	-	100	%	

[Note 1] Permanent damage to the device may occur if maximum values are exceeded. Function operation should be restricted to the conditions described under Normal Operating Conditions.

[Note 2] The life time of LED is defined as the time when it continues to operate under the condition at $T_a = 25 \pm 2^\circ\text{C}$ and $I_{\text{pin}} = 60 \text{ mA}(\text{Per EA})$ until the brightness becomes $\leq 50\%$ of its original value.



4. INTERFACE PIN CONNECTION

4.1 TFT LCD MODULE

CN1 (Interface signals and +5V DC power supply) Shown on the next table.

Using connector: FI-XB30SSRLA-HF-16(JAE) or compatible.

Matching connector: FI-X30HL(JAE) or compatible.

Pin No.	Symbol	Function	Remark
1	NC	Not connection, this pin should be open.	
2	NC	Not connection, this pin should be open.	
3	NC	Not connection, this pin should be open.	
4	GND	Ground	
5	RIN0-	Negative LVDS differential data input. Channel 0	LVDS
6	RIN0+	Positive LVDS differential data input. Channel 0	LVDS
7	GND	Ground	
8	RIN1-	Negative LVDS differential data input. Channel 1	LVDS
9	RIN1+	Positive LVDS differential data input. Channel 1	LVDS
10	GND	Ground	
11	RIN2-	Negative LVDS differential data input. Channel 2	LVDS
12	RIN2+	Positive LVDS differential data input. Channel 2	LVDS
13	GND	Ground	
14	RINCLK-	Negative LVDS differential clock input.	LVDS
15	RINCLK+	Positive LVDS differential clock input.	LVDS
16	GND	Ground	
17	RIN3-	Negative LVDS differential data input. Channel 3	LVDS
18	RIN3+	Positive LVDS differential data input. Channel 3	LVDS
19	GND	Ground	
20	NC	Not connection, this pin should be open.	
21	NC	Not connection, this pin should be open.	[Note 1]
22	NC	Not connection, this pin should be open.	
23	GND	Ground	
24	GND	Ground	
25	GND	Ground	
26	VCC	+5.0V power supply	
27	VCC	+5.0V power supply	
28	VCC	+5.0V power supply	
29	VCC	+5.0V power supply	
30	VCC	+5.0V power supply	



[Note 1] Built-in Self Test (BIST)

*1) PIN21=NC: Disable BIST function.

Available LVDS Signal input : Display LVDS input Pattern.

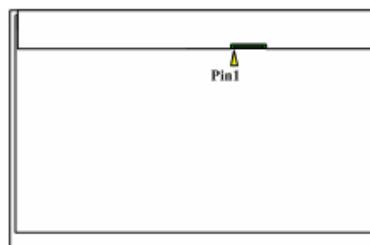
No LVDS Signal or unavailable LVDS Signal input : Display Black Pattern.

*2) PIN21=High (3.0V~3.6V) : Enable BIST function.

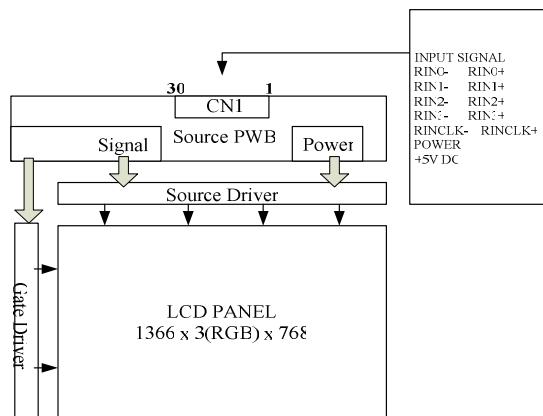
Available LVDS Signal input : Display LVDS input Pattern.

No LVDS Signal or unavailable LVDS Signal input : Display BIST Pattern.

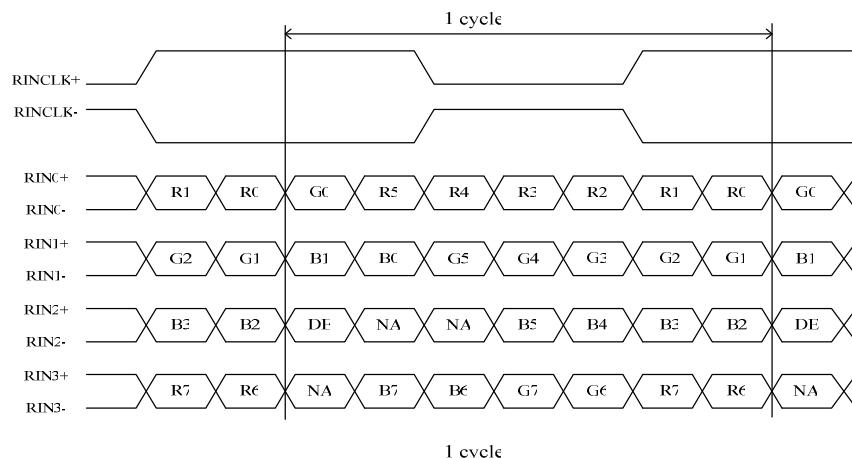
[Note 2] Pin1 start from left side.



4.2 BLOCK DIAGRAM



4.3 LVDS INTERFACE



DE: Display Enable

NA: Not Available (Fixed Low)

R/G/B Data 7:MSB , R/G/B Data 0:LSB ,



4.4 COLOR DATA INPUT ASSIGNMENT

Colors & Gray scale		Data signal																								
		Gray Scale	R0	R1	R2	R3	R4	R5	R6	R7	G0	G1	G2	G3	G4	G5	G6	G7	B0	B1	B2	B3	B4	B5	B6	B7
Basic Color	Black	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Green	—	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Cyan	—	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Red	—	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Magenta	—	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Yellow	—	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	White	—	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gray Scale of Red	Black	GS0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↑	GS1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Darker	GS2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↑	↓				↓				↓				↓				↓				↓				
	↓	↓				↓				↓				↓				↓				↓				
	Brighter	GS253	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↓	GS254	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	GS255	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray Scale of Green	Black	GS0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↑	GS1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Darker	GS2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↑	↓				↓				↓				↓				↓				↓				
	↓	↓				↓				↓				↓				↓				↓				
	Brighter	GS253	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	↓	GS254	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Green	GS255	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Gray Scale of Blue	Black	GS0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↑	GS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Darker	GS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	↑	↓				↓				↓				↓				↓				↓				
	↓	↓				↓				↓				↓				↓				↓				
	Brighter	GS253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1
	↓	GS254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	Blue	GS255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

0: Low level voltage,

1: High level voltage.

Each basic color can be displayed in 256 gray scales from 8 bit data signals. According to the combination of total 24 bit data signals, the 16,7M colors display can be achieved on the screen.



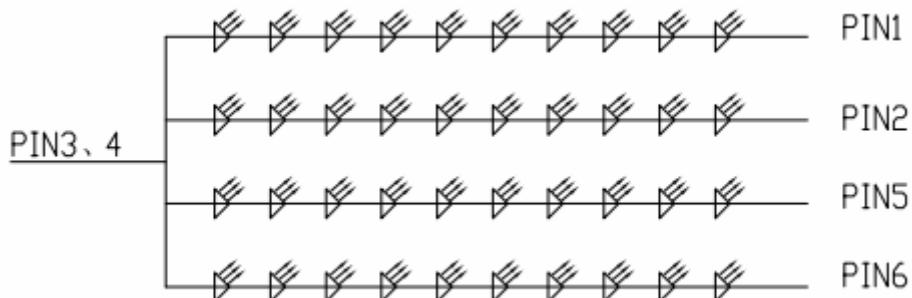
4.5 BACKLIGHT INTERFACE CONNECTION

LED lightbar connector type : CI1406M1HRE-NH, manufactured by Cvilux.

PIN No.	Signal Name
1	ILED(Current Out)
2	ILED(Current Out)
3	VLED(Voltage In)
4	VLED(Voltage In)
5	ILED(Current Out)
6	ILED(Current Out)

4.6 BACKLIGHT UNIT

The backlight unit contains one LED Lightbar.



Electrical Circuit of LED Lightbar



5. INTERFACE TIMING

5.1 INPUT SIGNAL TIMING SPECIFICATIONS

(a) The input signal timing specifications are shown as the following table and timing diagram.

Item			Symbol	Min	Typ.	Max.	Unit
LCD Timing	DCLK	Freq.	fCLK	50	76	95	MHz
		Cycle	tCLK	10.5	13.2	20	ns
	Horizontal	Horizontal effective time	tHA	1366	1366	1366	tCLK
		Horizontal blank time	tHB	80	200	570	tCLK
		Horizontal total time	tH	1446	1560	1936	tCLK
	DE	Vertical frame Rate	Fr	50	60	75	Hz
		Vertical total time	tV	778	806	888	tH
		Vertical effective time	tVA	768	768	768	tH
		Vertical blank time	tVB	10	38	120	tH

[Note]

*1) DE (data enable) usually is positive.

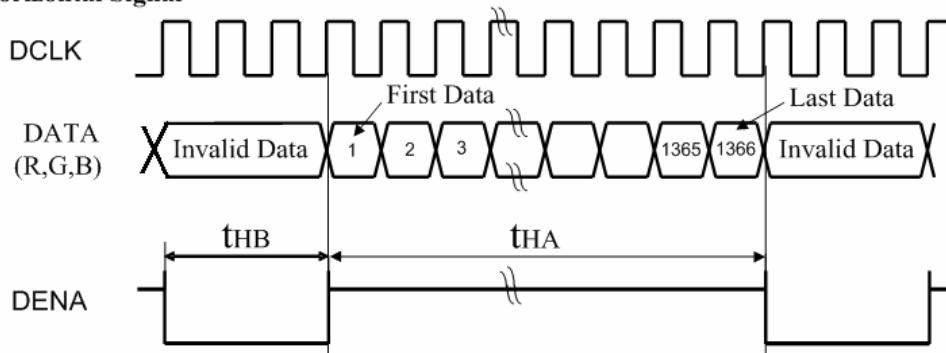
*2) DCLK still inputs during blanking.

*3) DE mode only.

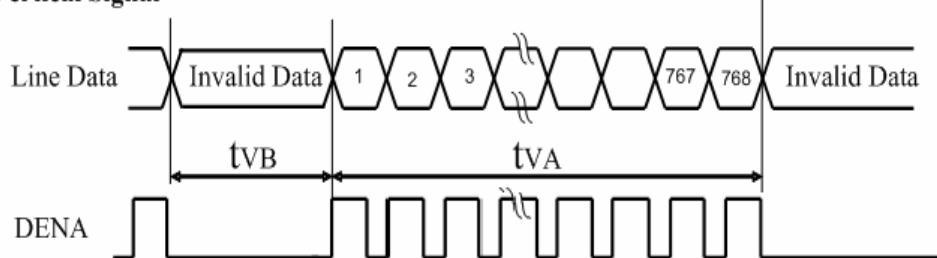
*4) It maybe cause flicker at Fr =50Hz.

(b) Timing Chart

a.Horizontal Signal



b.Vertical Signal



6. OPTICAL CHARACTERISTICS

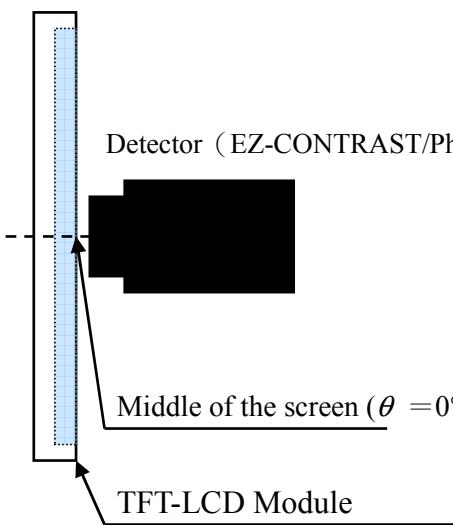
6.1 OPTICAL SPECIFICATION

Ta=25°C

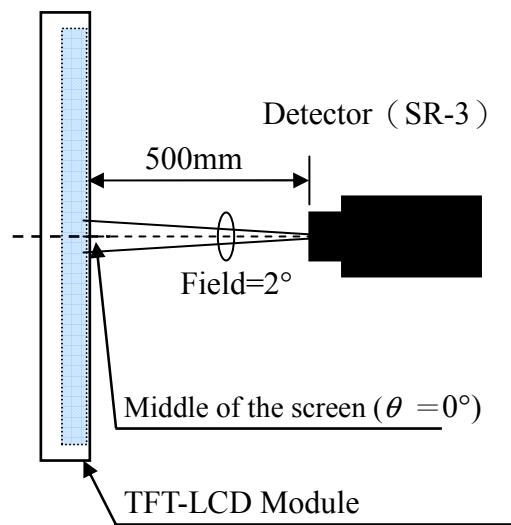
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	Remark
Luminance	L	$\theta = 0$ deg.	-	200	-	cd/m ²	[Note 4]
Luminance uniformity	ΔL	$\theta = 0$ deg.	75	-	-	%	[Note 5]
Viewing angle range	Horizontal	$\theta 21 + \theta 22$	CR ≥ 10	-	90	-	Deg. [Note 1,4]
	Vertical	$\theta 11 + \theta 12$		-	65	-	
Contrast ratio	CR		-	600	-	-	[Note 2,4]
Response time	Tr+Tf		-	5	-	ms	[Note 3,4]
Chromaticity of white	x		$\theta = 0$ deg.	0.313	Typ.+0.03	-	[Note 4]
	y			0.329		-	
Chromaticity of red	x			0.639		-	
	y			0.351		-	
Chromaticity of green	x			0.321		-	
	y			0.632		-	
Chromaticity of blue	x			0.158		-	
	y			0.064		-	
Color Gamut	C.G		-	72	-	%	[Note 4]

*The measurement shall be executed 30 minutes after lighting at rating.

* The optical characteristics are measured using the following equipment.



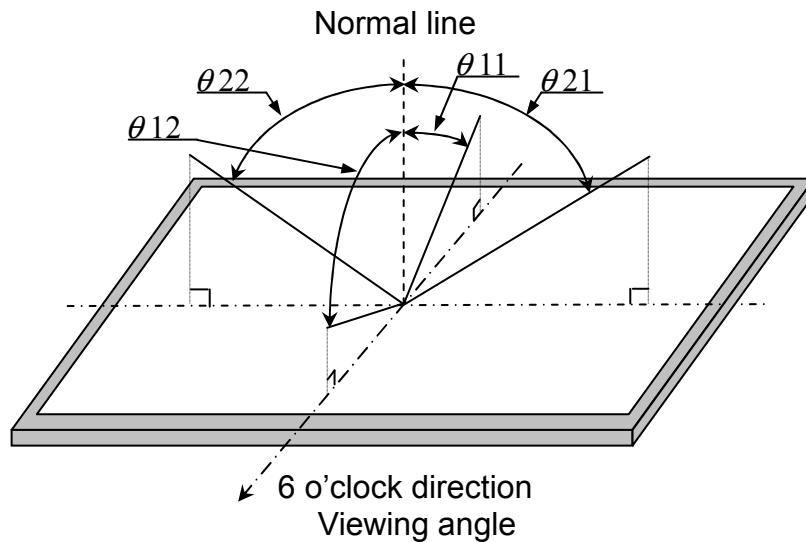
Measurement of viewing angle range, Response time.



Measurement of Contrast, Luminance, Chromaticity.



[Note 1] Definitions of viewing angle range:



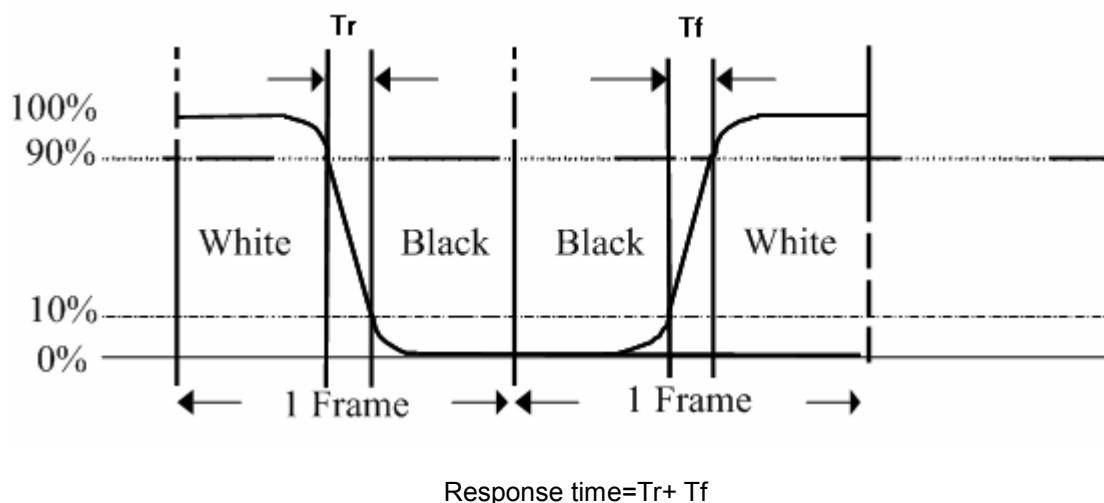
[Note 2] Definition of contrast ratio:

The contrast ratio is defined as the following.

$$\text{Contrast Ratio} = \frac{\text{Luminance (Brightness) with white screen}}{\text{Luminance (Brightness) with black screen}}$$

[Note 3] Definition of response time

The output signals of photo detector are measured when the input signals are changed from "Full White" to "Full Black" (rising time, Tr), and from "Full Black" to "Full White" (falling time, Tf), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.



[Note 4] This shall be measured at center of the screen.

[Note 5] Definition of Luminance and Luminance uniformity:

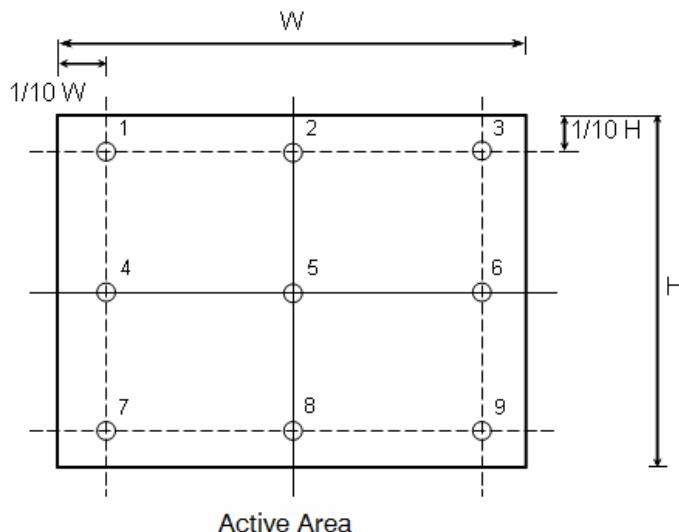
Luminance: To measure at the center position "5" on the screen (NO.5).

Luminance uniformity: Lw (MAX) and Lw(MIN) are the maximum and minimum luminance value



measure at the position "1~9" on the screen (NO.1~9) and the equation:

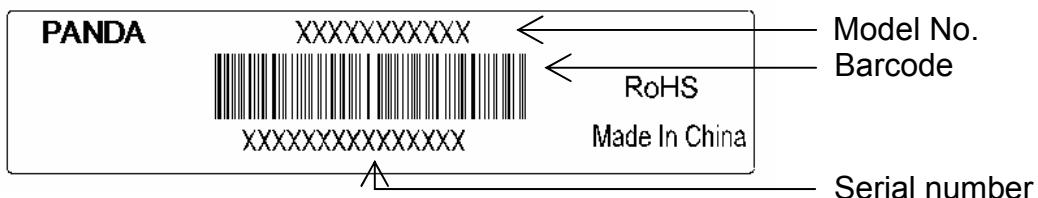
$$\Delta Lw = Lw(\text{MIN}) / Lw(\text{MAX}) \times 100\%$$



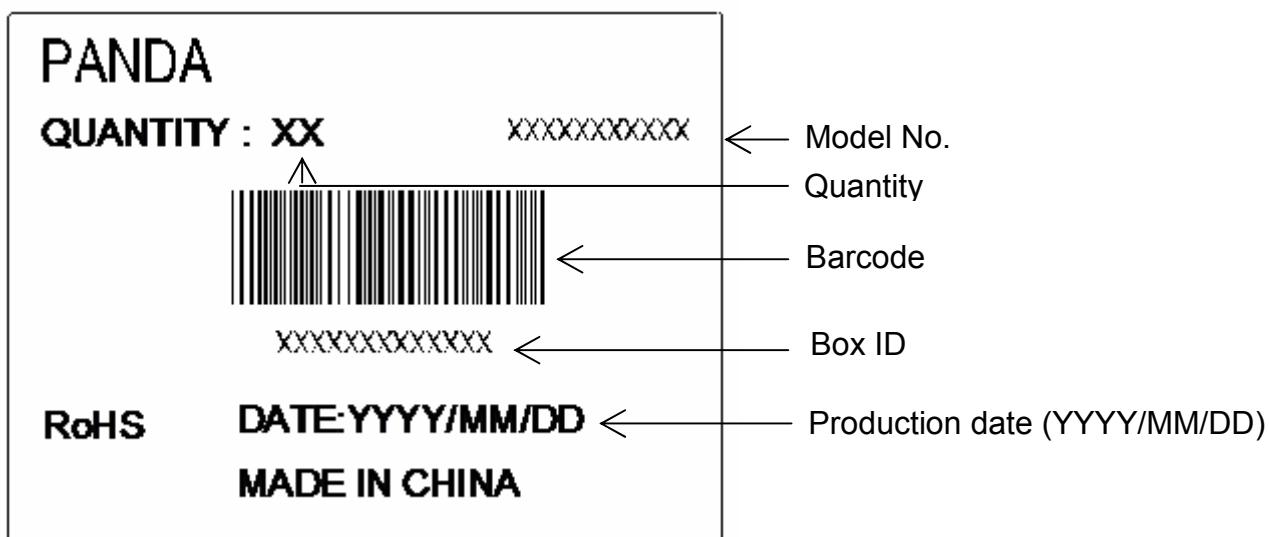
7. DEFINITION OF LABELS

7.1 MODULE LABEL

The label of displays, product model (LM185TT2A), a product number is stuck on the Module.



7.2 PACKING LABEL

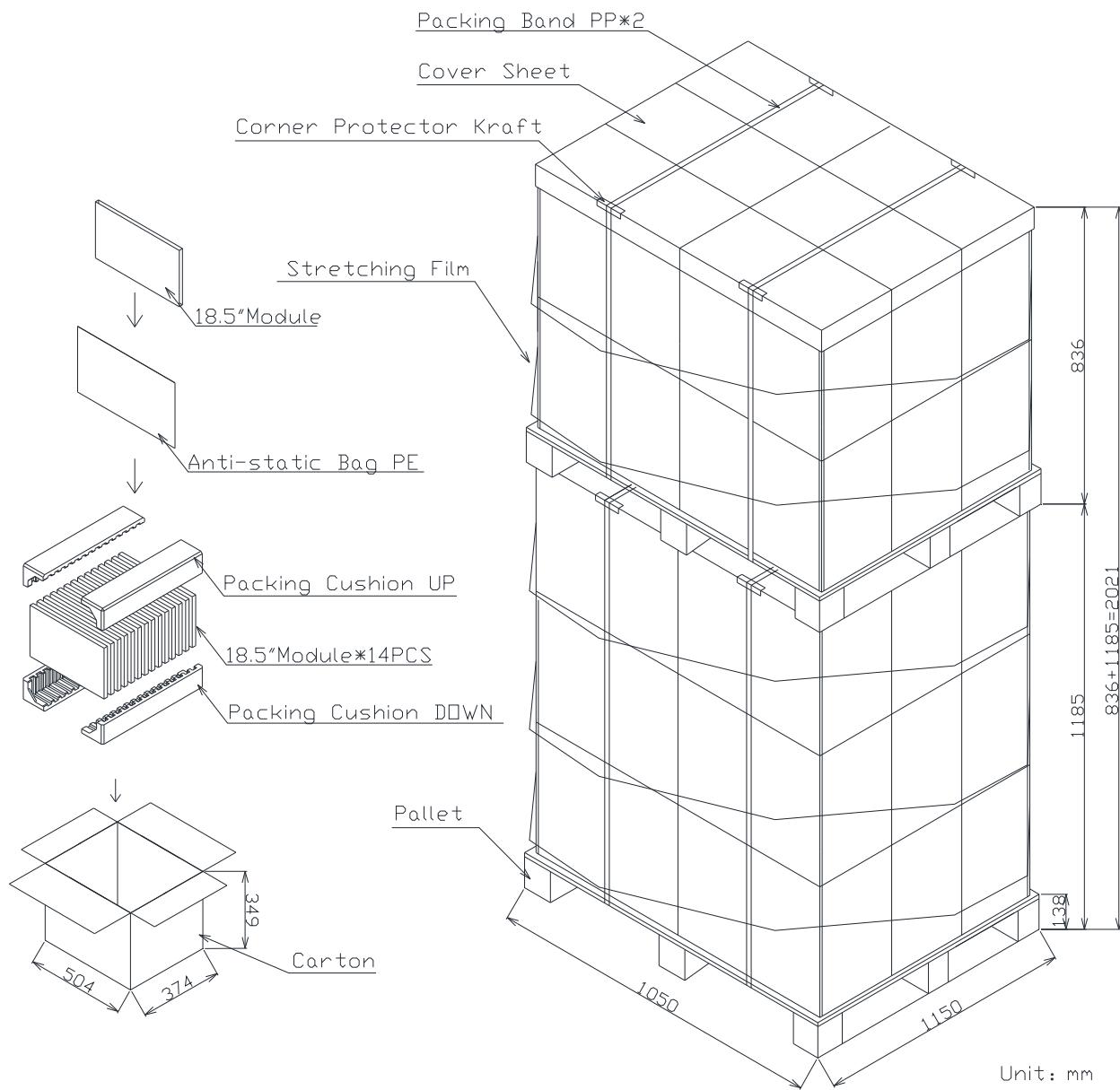


8. PACKING

8.1 PACKING SPECIFICATIONS

- (a)Piling number of carton : 12 or 18
- (b)Packing quantity in one carton : 14PCS
- (c)Carton size : 504(L) x374(W) x 349(H)mm
- (d)Pallet size : 1150(L) x 1050(W) x 138(H)mm
- (e)Total mass of one carton filled with full Module : 21KG

8.2 PACKING METHOD



9. CARTON STORAGE CONDITION

Temperature: 0°C to 40°C

Humidity: 80%RH or less

Reference condition: 20°C to 35°C, 80%RH or less (summer)

5°C to 15°C, 80%RH or less (winter)

The total storage time (40°C, 80%RH): 240h or less

Sunlight: Be sure to shelter a product from the direct sunlight.

Atmosphere: Harmful gas, such as acid and alkali which bites electronic components and/or wires must not be detected.

Be sure to put cartons on palette or base, don't put it on floor, and store them with removing from wall. Please take care of ventilation in storehouse and around cartons, and control changing temperature is within limits of natural environment.

10. PRECAUTIONS

10.1 ASSEMBLY AND HANDLING PRECAUTIONS

- (a) Do not apply rough force such as bending or twisting to the module during assembly.
- (b) It is recommended to assemble or to install a module into the user's system in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (c) Since the LCM consists of TFT and electronic circuits with CMOS-ICs, which are very weak to electrostatic discharge, person who is handling an LCM should be grounded though adequate methods such as an anti-static wrist band. Connector pins should not be touched directly with bare hands.

Reference: Process control standard is shown as follow,

	item	Management standard value and performance standard
1	Anti-static mat(shelf)	1to50 [Mega ohm]
2	Anti-static mat(floor, desk)	1to100 [Mega ohm]
3	Ionizer	Attenuate from $\pm 1000V$ to $\pm 100V$ within two seconds.
4	Anti-static wrist band	0.8 to 10 [Mega ohm]
5	Anti-static wrist band entry and ground resistance	Below 1000 [ohm]
6	Temperature	22 to 26 [°C]
7	Humidity	60 to 70 [%]

- (d) Do not apply pressure or impulse to the module to prevent the damage of LCD panel and backlight.
- (e) Always follow the correct power-on sequence when the LCD module is turned on. This can prevent the damage and latch-up of the CMOS LSI chips.
- (f) Be sure to turn off the power supply when inserting or disconnecting the cable.
- (g) Do not disassemble the module.
- (h) Front polarizer can easily be damaged, so please pay attention on it.
- (i) Using a absorbent cotton or other soft cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (j) Since long contact with drops of water may cause discoloration or spots, please wipe off them as soon as possible.



- (k) The Panel will be broken or chipped when it is dropped or bumped against a hard substance.
- (l) Applying too much force and stress to PWB and drivers may cause a malfunction electrically and mechanically.
- (m) Please be careful since image retention may occur when a fixed pattern is displayed for a long time.
- (n) Moisture can easily penetrate into LCD module and may cause the damage during operation.
- (o) High temperature or humidity may deteriorate the performance of LCD module. Please store LCD modules in the specified storage conditions.
- (p) This LCM is corresponded to ROHS.
- (q) When any question or issue occurs, it shall be solved by mutual discussion.

10.2 SAFETY PRECAUTIONS

- (a) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.
- (b) After the module's end of life, it is not harmful in case of normal operation and storage.

11. Reliability test items

- (a) Environment test condition

Test item	Condition
High temperature storage test	Ta= 60°C, 240h
Low temperature storage test	Ta=-20°C, 240h
High temperature and high humidity storage test	Ta=50°C, 80%RH, 240h (No condensation)
High temperature operation test	Ta= 50°C, 240h
Low temperature operation test	Ta= 0°C, 240h
Thermal Shock Test	-20°C/30min, 60°C/30min, 100 cycles
On/Off Test	On/10sec, Off/10sec, 30,000 cycles

- (b) Shock & Vibration

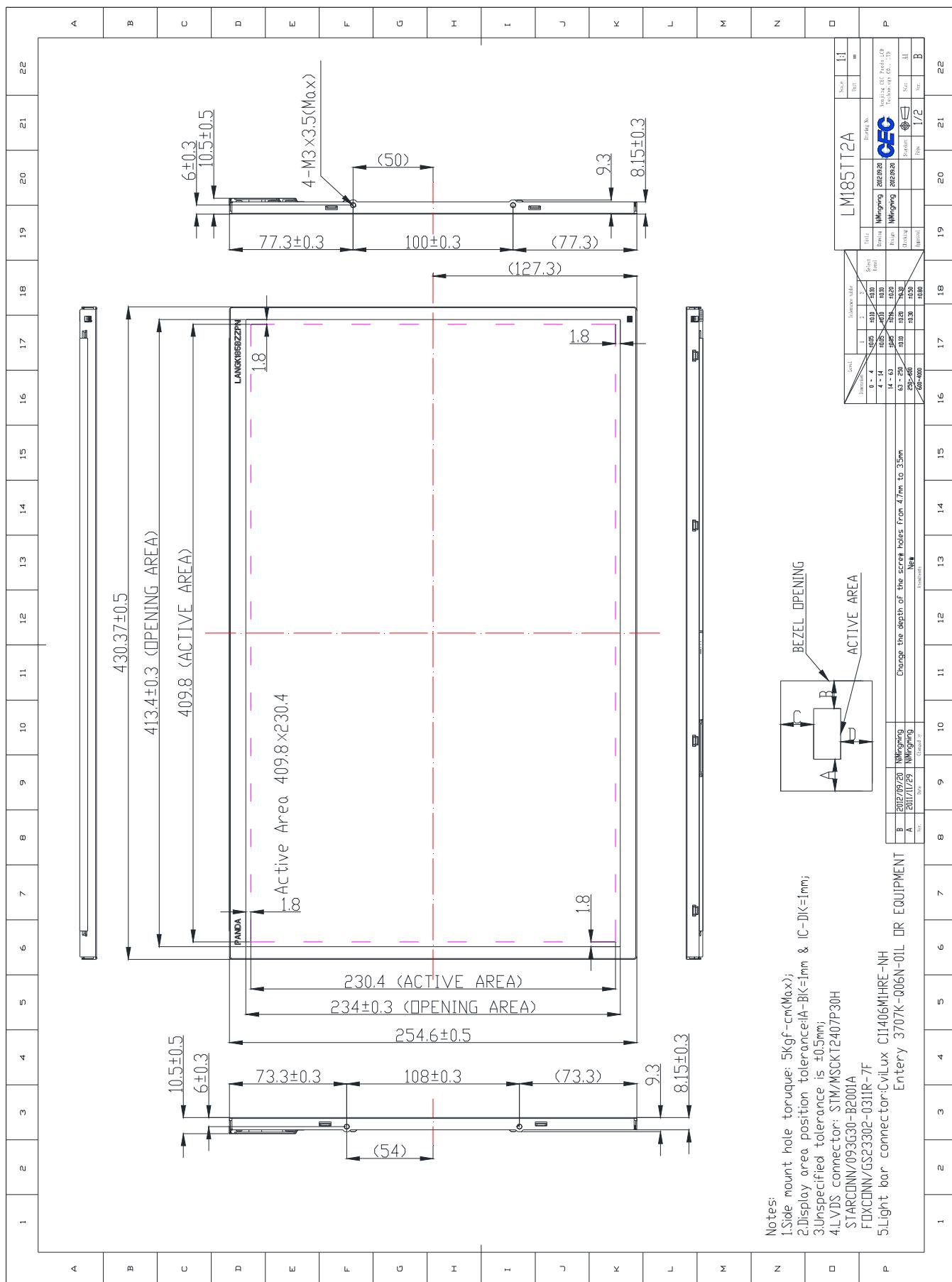
Test item	Condition
Shock (Non-Operation)	Shock level: 50 Grms Waveform: half sine wave, 20ms Direction: ±X,±Y,±Z One time each direction
Vibration (Non-Operation)	Wave form: Random Vibration level: 1.5 Grms Bandwidth: 10-200 Hz Duration: X,Y,Z each direction per 30 min

[Result evaluation criteria]

Under the display quality test condition with normal operation state, there shall be no change, which may affect practical display function.

12. Mechanical Drawing





Notes:

1. Side mount hole torque: 5Kgf-cm (Max);
2. Display area position tolerance: |A-B|≤1mm & |C-D|≤1mm;
3. Unspecified tolerance is ±0.5mm;
4. LVDS connector: STM/MSCK1240/P30H
5. Light bar connector-Civilux CL140GMHRE-NH

Entery 3707K-006N-01L DR EQUIPMENT

